DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0013928

OFFICE Design Policy & Support

Spalding County

GDOT District 3 - Thomaston

DATE 8/27/2018

SR 16 @ Flint River – 8 miles west of

Griffin - Bridge Replacement

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering

Joe Carpenter, Director of P3

Albert Shelby, Director of Program Delivery

Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator

Kim Nesbitt, Program Delivery Administrator

Bobby Hilliard, Program Control Administrator

Paul Tanner, State Transportation Planning Administrator

Eric Duff, State Environmental Administrator

Bill DuVall, State Bridge Engineer

Andrew Heath, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Erik Rohde, State Project Review Engineer

Monica Flournoy, State Materials Engineer

Patrick Allen, State Utilities Engineer

Benny Walden, Statewide Location Bureau Chief

Michael Presley, District Engineer

Adam Smith, District Preconstruction Engineer

Scott Parker, District Utilities Engineer

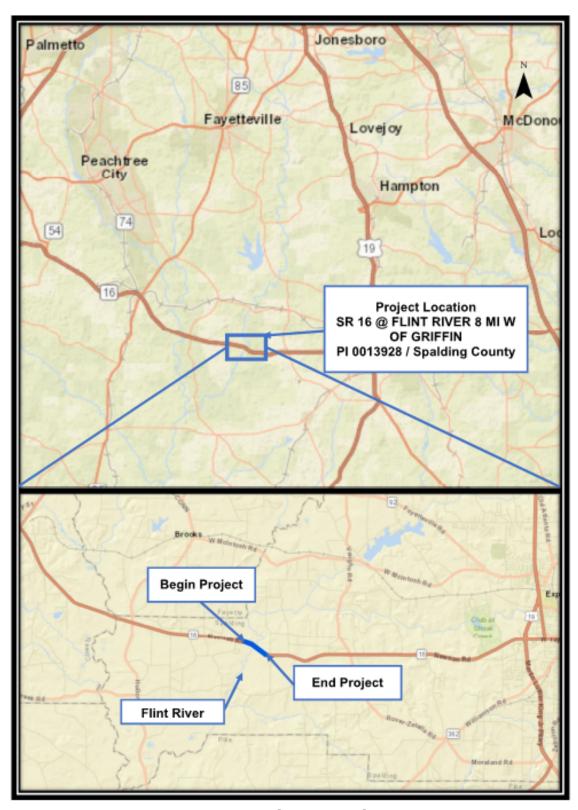
Kenneth Wicks, Project Manager

BOARD MEMBER - 3rd Congressional District

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type: Bridge Replacement	P.I. Number:	0013928
GDOT District: 3	County:	Spalding
Federal Route Number: N/A	State Route Number:	16
Project Number:	N/A	-
This project proposes to replace the bridge on SR 16	@ Flint River.	
** Report updated 7-1	12-2018 to address review co	omments
Benjam F Pala III		5/17/2018
Consultant Designer (Volkert, Inc.) Kumberly W.	Natist	Date 5/17/18
State Program Delivery Administrator		Date
APC. L.B.		5/17/2018
GDO1 Project Manager		Date
Recommendation for approval: * Recommendation	ations on file	
* Eric Duff/KLP		5-22-2018
State Environmental Administrator		Date
* Christina Barry/KLP		6-1-2018
70r State Traffic Engineer		Date
* Bill DuVall/KLP		6-13-2018
State Bridge Engineer		Date
* Michael Presley/KLP		5-22-2018
District Engineer		Date
MPO Area: This project is consistent with the MP (RTP)/Long Range Transportation Plan (LRTP).	PO adopted Regional Tran	sportation Plan
Rural Area: This project is consistent with the goal (SWTP) and/or is included in the State Transportation.		
Craffia X. Van Re		6-7-18
State Transportation Planning Administrator		Date
Approval:		
Concur: High Bital		7-24-18
GDOT Director of Engineering	Da	te
Approve: Marguet B. Pull	9	1-24-18
CDOT Chief Engineer	Da	to.

PROJECT LOCATION MAP



PI 0013928 / Spalding County SR 16 @ Flint River Bridge Replacement

Limited Scope Concept Report – Page 3 County: Spalding

PLANNING & BACKGROUND DATA

Project Justification Statement: The bridge on SR 16 over Flint River, Structure ID 255-0012-0, was built in 1960. This bridge consists of three (3) main spans of steel beams with five (5) approach spans of Reinforced Concrete Deck Girders (RCDG's). The main spans rest on concrete caps with concrete columns, while the approach spans are on concrete caps with steel piles. The bridge was designed using an HS-20 vehicle, which is below current design standards. A structural analysis of this bridge shows a lower than expected carrying capacity in the substructure. The overall condition of this bridge would be classified as fair. The deck is in satisfactory condition with minor cracking throughout and spalls with exposed rebar. The superstructure is in satisfactory condition with deflection cracking and spalls with exposed rebar in the RCDG's. The substructure is in satisfactory condition with corrosion with section loss on the steel piles at the waterline and moderate abrasion on the concrete columns. This bridge is classified as having an unknown foundation and therefore could be at risk for scour. Due to the structural analysis of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the unknown foundation of the substructure, replacement of this 57-year-old bridge is recommended. (Justification Statement was provided by Office of Bridge Design.)

P.I. Number: 0013928

Existing conditions: This section of SR 16 is located in Spalding County between the cities of Senoia and Griffin. The bridge structure, ID 255-0012-0, carries SR 16 over Flint River. The existing structure consists of three main spans of steel beams with five approach spans of Reinforced Concrete Deck Girders (RCDG's). The main spans are supported by concrete caps and concrete columns, and the approach spans are supported by concrete caps and steel piles. The typical section on the bridge consists of two lanes with a bridge roadway width of 28 ft. and a bridge deck out-to-out width of 34.4 ft. The approach roadway typical section consists of two 11.5-foot lanes with 3-foot paved shoulders.

TIP #: N/A

Other projects in the area:

MPO: N/A - not in an MPO

Congressional Distri	ct(s): 3						
Federal Oversight:	□PoDI	⊠Exempt	□State Fu	nded	□Other		
Projected Traffic: AAC Current Year (2018): Traffic Projections Per Date approved by the Functional Classifica	7865 Opei formed by: Volki GDOT Office of	ert, Inc. Planning: Pendi	<u>'525</u> ng	Design Year	(2043): <u>9200</u>		
Complete Streets - B	icycle, Pedestr	ian, and/or Tran	sit Standard	ls Warrants:			
Warrants met:	⊠None	□Bicycle	□Pedestria	an 🗆	Transit		
Pavement Evaluation and Recommendations							
Initial Pavement Eval	uation Summar	y Report Require	d? ⊠	No	□Yes		
Initial Pavement Type	e Selection Rep	ort Required?	\boxtimes	No	□Yes		
Feasible Pavement A	Alternatives:	⊠HM	Α 🗆	PCC	□HMA & PCC		

DESIGN AND STRUCTURAL

Description of Proposed Project: The project proposes replacing the bridge on SR 16 over Flint River in Spalding County, located approximately 8.6 miles east of Senoia. The total length of the project is approximately 0.92 miles with the project termini located 1450 ft. to the west of the existing bridge abutment and 3050 ft. to the east of the existing bridge abutment. The proposed structure is a 480-foot long by 43.25-foot wide bridge over Flint River, which will be constructed adjacent to the existing alignment, offset and parallel to the north of the existing bridge.

Limited Scope Concept Report – Page 4

County: Spalding

Major Structures:

inajor otractares.	-	
Structure ID	Existing	Proposed
ID 255-0012-0	S.R. 16 consists of Structure ID 255-0012-0, which	The proposed
Along S.R.16	is a bridge that consists of three main spans of steel	structure is a 480-foot
@ Flint River	beams with five approach spans of Reinforced	long by 43.25-foot
	Concrete Deck Girders (RCDG's). The main spans	wide bridge. This
	are supported by concrete caps and columns, and	includes two 12-foot
	the approach spans are supported by concrete caps	travel lanes and 8-
	with steel piles. The bridge deck width is 34.4 ft. and	foot shoulders on
	the bridge roadway curb to curb width is 28.0 ft. The	both sides of the
	total length of the bridge is 380 ft.	bridge.

P.I. Number: 0013928

Accelerated Bridge Construction (ABC) techniques anticipat	ted:	No	ΠY	res/
--	------------	------------------------	------	----	----	------

This bridge replacement project lends itself to constructing the proposed bridge on new alignment to the north of the existing alignment due to site conditions – limited impacts to property along the new alignment and length of bridge.

Accelerated Bridge Construction techniques are not recommended for this project based on the following considerations:

- NEXT Beams are limited to a maximum 80' and therefore do not meet the necessary span length requirements to span the river.
- Cored Slabs and Adjacent Box Beams do not meet the necessary span length. The projected ADT and % trucks criteria exceed the guidance provided in the GDOT bridge manual.
- A Lateral Slide or Self-Propelled Modular Transport would require construction of the entire bridge adjacent to the existing structure. The site preparation for the SPMT construction method would require extensive grading in the flood plain and underneath the existing bridge to provide a stabilized level surface. It is anticipated that the hydraulic opening for this structure will result in a longer bridge structure requiring removal of existing roadway embankment and construction of substructure units. These techniques would require extended road closure and off-site detour for demolition, excavation, substructure construction and bridge placement. For these reasons, neither the use of SPMTs nor a Lateral Slide were considered to be feasible.

Mainline Design Features: SR 16 @ Flint River

Feature	Existing	Policy	Proposed
Typical Section			
- Number of Lanes	2		2
- Lane Width(s)	11.5 ft.	11 – 12 ft.	12 ft.
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width	3 ft.	10 ft.	10 ft.
Paved	3 ft.	4 ft.	4 ft.
- Outside Shoulder Slope	Unknown	6%	6%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed	55 mph		55 mph
Design Speed	55 mph	55 mph	55 mph
Minimum Horizontal Curve Radius	Unknown	1060 ft.	1600 ft.
Maximum Superelevation Rate	Unknown	6% - 8%	5.6%
Maximum Grade	Unknown	5%	5%
Access Control	By Permit	By Permit	By Permit
Design Vehicle	WB-67		WB-67
Pavement Type	HMA		HMA

Is the project located o	on a NHS roadv	vay?	⊠ No	□ Ye	es		
Design Exceptions/De	sign Variances	to GDO	T and/o	r FHWA Cont	trolling Cr	iteria anticipated: N	lone
Design Variances to G	DOT Standard	Criteria	anticipa	ited: None			
Lighting required:	⊠ No		☐ Yes				
Off-site Detours Antici	pated:	⊠ No		□ Undeterm	ined	□ Yes	
Transportation Manag If Yes: Project class TMP Components A	ified as:	IP] Requ		☐ No Significant	⊠ Yes		
INTERCHANGE	S AND INTI	ERSE	CTION	IS			
Major Interchanges/Int	tersections: N/A	A					
Intersection Control E	valuation (ICE)	Require	d:	⊠ No	☐ Yes		
Roundabout Peer Rev	iew Required:	⊠ No		Yes	☐ Comp	oleted – Date:	
UTILITY AND PE	ROPERTY						
Railroad Involvement:	None						
Utility Involvements: Central Ga EMC (Electr AT&T (Telecommunicat Spalding County Water	ion)						
SUE Required:	⊠ No	□Yes					
Public Interest Determ	ination Policy	and Pro	cedure r	ecommende	d? ⊠ No	□ Yes	
Right-of-Way: Required Right-of-Way Easements anticipated:	anticipated:	<u>70</u> ft. □ Non∈ ⊠ Tem	е	Proposed wid ⊠ Ye ⊠ Permaner	es	☐ Undetermined	
The permanent easeme	ents being propo	sed need	d to be p	urchased with	the right t	o place utilities.	
	Anticipated to Displacements		ted:	ipacted parce Businesse Residence Othe Displacement	es: 0 es: 0 er: 0		
Impacts to USACE pro	perty anticipat	ed?	⊠ No	□ Y€	es	☐ Undetermined	

P.I. Number: 0013928

CONTEXT SENSITIVE SOLUTIONS

Limited Scope Concept Report – Page 5

County: Spalding

Issues of Concern: None

Context Sensitive Solutions Proposed: None

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document: NEPA: □ PCE □ CE □ EA-FONSI GEPA: □ Type A □ Type B □ None Level of Environmental Analysis: □ The environmental considerations noted below are based on preliminary desktop or screening environmental analysis and are subject to revision after the completion of resource identification, and agency concurrence.	
☐ The environmental considerations noted below are based on the completion of resource identification, delineation, and agency concurrence.	
Water Quality Requirements: MS4 Compliance – Is the project located in an MS4 area? ⊠ No □ Yes	
Is Non-MS4 water quality mitigation anticipated? ⊠ No ☐ Yes	
Environmental Permits, Variances, Commitments, and Coordination anticipated: The proposed project would required a Section 404 Permit and Buffer Variance if construction impact Flint River and its buffer.	were to
NEPA/GEPA Comments & Information:	
NEPA: The anticipated environmental document for the proposed project is a Categorical Exclusion. the project require a transportation use from a nearby Section 4(f) resource, a Section 4(f) Evaluation be required.	
Ecology: An Ecology report has not been prepared. Early Coordination with the Georgia Department Natural Resources indicated nine species occurring within a three-mile radius. The US Fish and W Service replied with six species of concern. A field survey is currently underway. A Section 404 per could be required if the river is affected by the replacement of the proposed bridge.	ildlife
History: A History report has not yet been prepared. A desktop survey identified one property great 50 years of age within the project area. A field survey will be needed to determine if this project considered eligible and if there are additional historic resources along the project corridor.	
Archaeology: An Archaeology report has not yet been prepared. A desktop survey did not iden previously recorded archaeological sites or cemeteries in the project area. A field survey will dete additional archaeological resources exist along the project corridor.	
Noise: Noise studies have not been prepared. A Type III assessment is anticipated. However, a assessment would be required if the bridge alignment is significantly altered vertically or horizontal	
Air Quality: Is the project located in an Ozone Non-attainment area? ⋈ No ☐ Yes Carbon Monoxide hotspot analysis required? ⋈ No ☐ Yes	

P.I. Number: 0013928

Public Involvement: Early coordination letters have been sent to local, state, and federal stakeholders during the concept phase. Due to the proximity of the Spalding County Fire Department Block Station #5 to the project location further coordination may be required. A public detour open house is not anticipated, as the preferred alternative proposes the replacement of the bridge on the new alignment.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

P.I. Number: 0013928

Is Federal Aviation Administration (FAA) coordination anticipated?

⊠ No □ Yes

Project Meetings:

Monthly Team Meeting January 3, 2018 Monthly Team Meeting March 7, 2018 Concept Team Meeting May 3, 2018

Other coordination to date: Early coordination letters have been sent to the local government, EMS, and school board.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Volkert, Inc.
Design	Volkert, Inc.
Right-of-Way Acquisition	GDOT
Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Atkins \ Volkert, Inc
Environmental Mitigation	Atkins \ Volkert, Inc
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate and Funding Responsibilities:

	PE Activities						
	PE Funding	Section 404 Mitigation	ROW**	Reimbursable Utilities	CST*	Total Cost	
Funded By	Federal / State	Federal / State	Federal / State	Federal / State	Federal / State	\$7 ,482,544 (total w/o RO\	l W cost)
\$ Amount	\$500,000	\$84,045	TBD	\$165,000	\$6,733,499	TBD	XIP
Date of Estimate	9/26/2016	5/15/2018	Requested	4/27/2018	5/17/2018		

^{*}CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative: Construct the proposed bridge parallel and offset to the north of the existing						
bridge, and remove the existing b	ridge.					
Estimated Property Impacts: 12 Estimated Total CST Cost: \$6,733,499						
Estimated ROW Cost:	Estimated ROW Cost: TBD Estimated CST Time: 18 Months					
Rationale: This alternative was determined to be feasible because of the high traffic volume, avoidance						
of a long detour length, and minin	nal impacts to	the fire station.				

^{**} Right of Way costs were requested from GDOT on 4/4/2018.

Limited Scope Concept Report – Page 8

County: Spalding

No-Build Alternative: No proposed improvements within project limits				
Estimated Property Impacts: 0 Estimated Total CST Cost: 0				
Estimated ROW Cost: 0 Estimated CST Time: 0				

P.I. Number: 0013928

Rationale: This alternative was not selected as it does not address the structural integrity issues of the existing bridge as described in the project justification statement.

Alternative 1: Construct the proposed bridge parallel and offset to south of the existing bridge.					
Estimated Property Impacts: 13 Estimated Total CST Cost: \$6,634,916					
Estimated ROW Cost: TBD Estimated CST Time: 18 Months					
Rationale: This alternative was not selected because realigning SR 16 to the south of the existing					

Rationale: This alternative was not selected because realigning SR 16 to the south of the existing bridge would impact the fire station located on the south side.

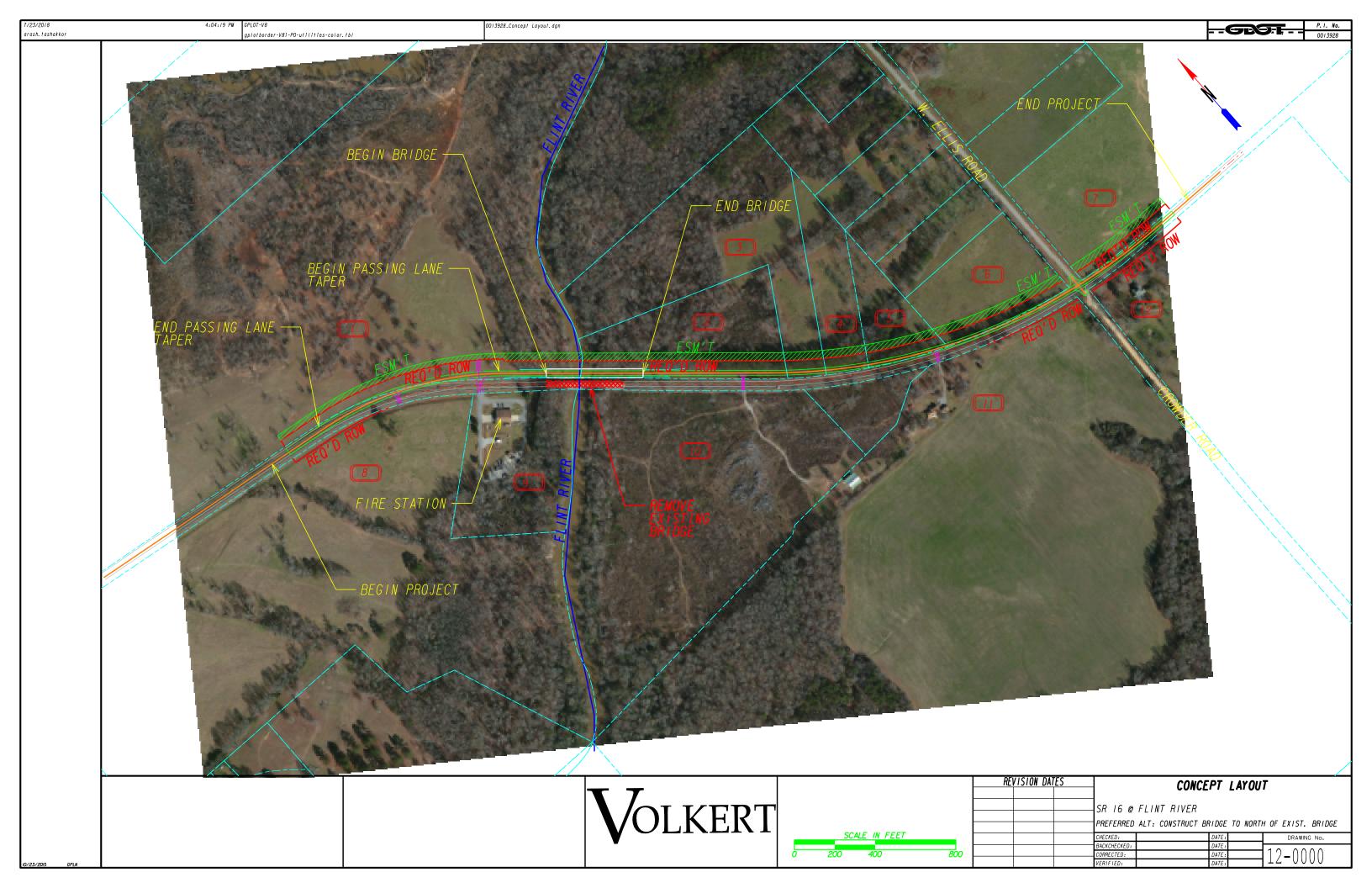
Alternative 2: Replace the existing bridge at the current location using an off-site detour.				
Estimated Property Impacts: 8 Estimated Total CST Cost: \$5,534,071				
Estimated ROW Cost: TBD Estimated CST Time: 18 Months				
Better to This attended to the standard the bight to the standard the standard the				

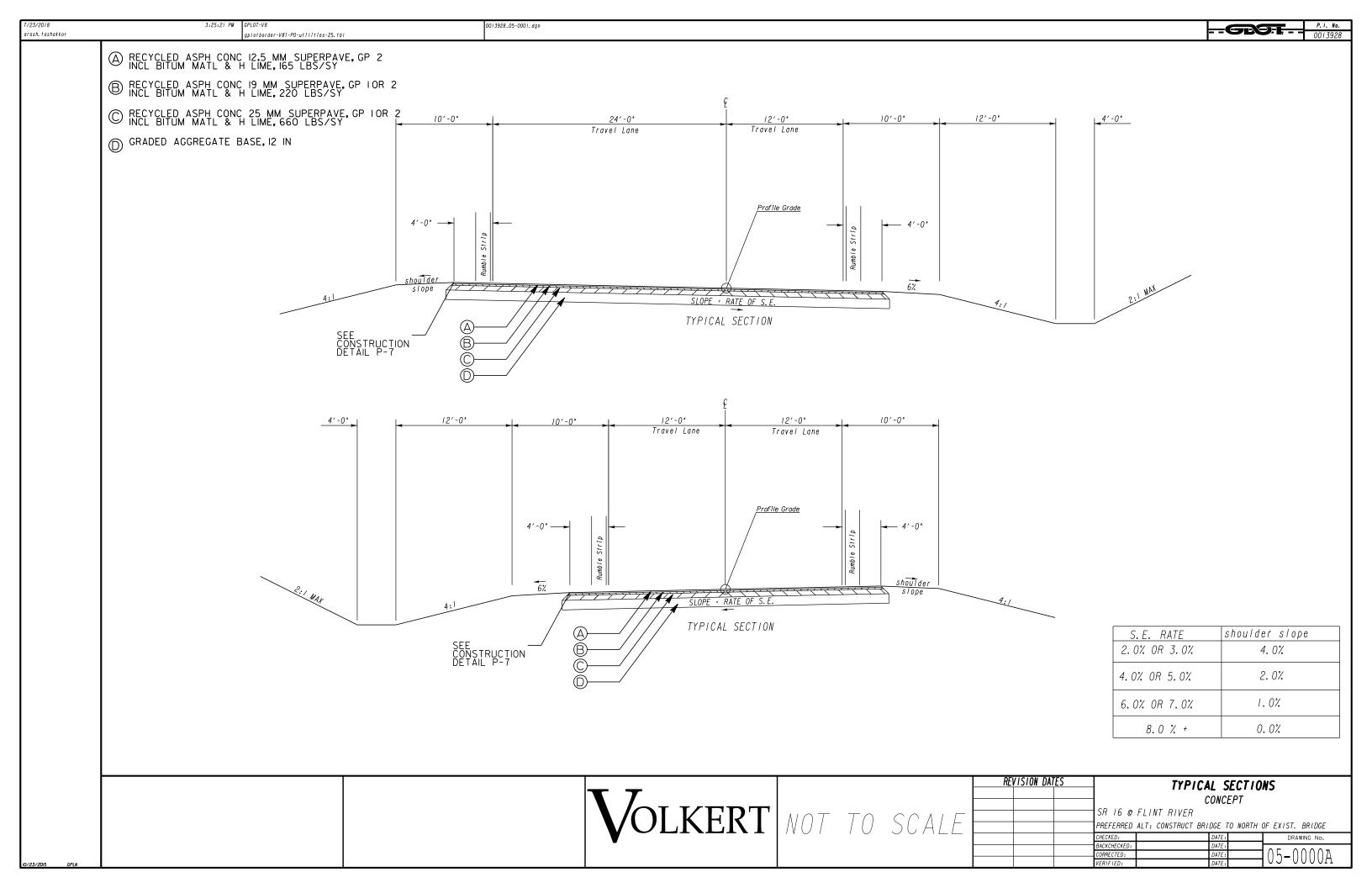
Rationale: This alternative was not selected because of the high traffic volume, detour length and the adverse effects on the fire department emergency response time. The proposed detour redirects the traffic on SR 16 to SR 85 southbound towards Meriwether County, then SR 362 eastbound and back on SR 16 for the total length of 29.1 miles. The detour will add 11.6 miles and 14 minutes to the normal route length and travel time.

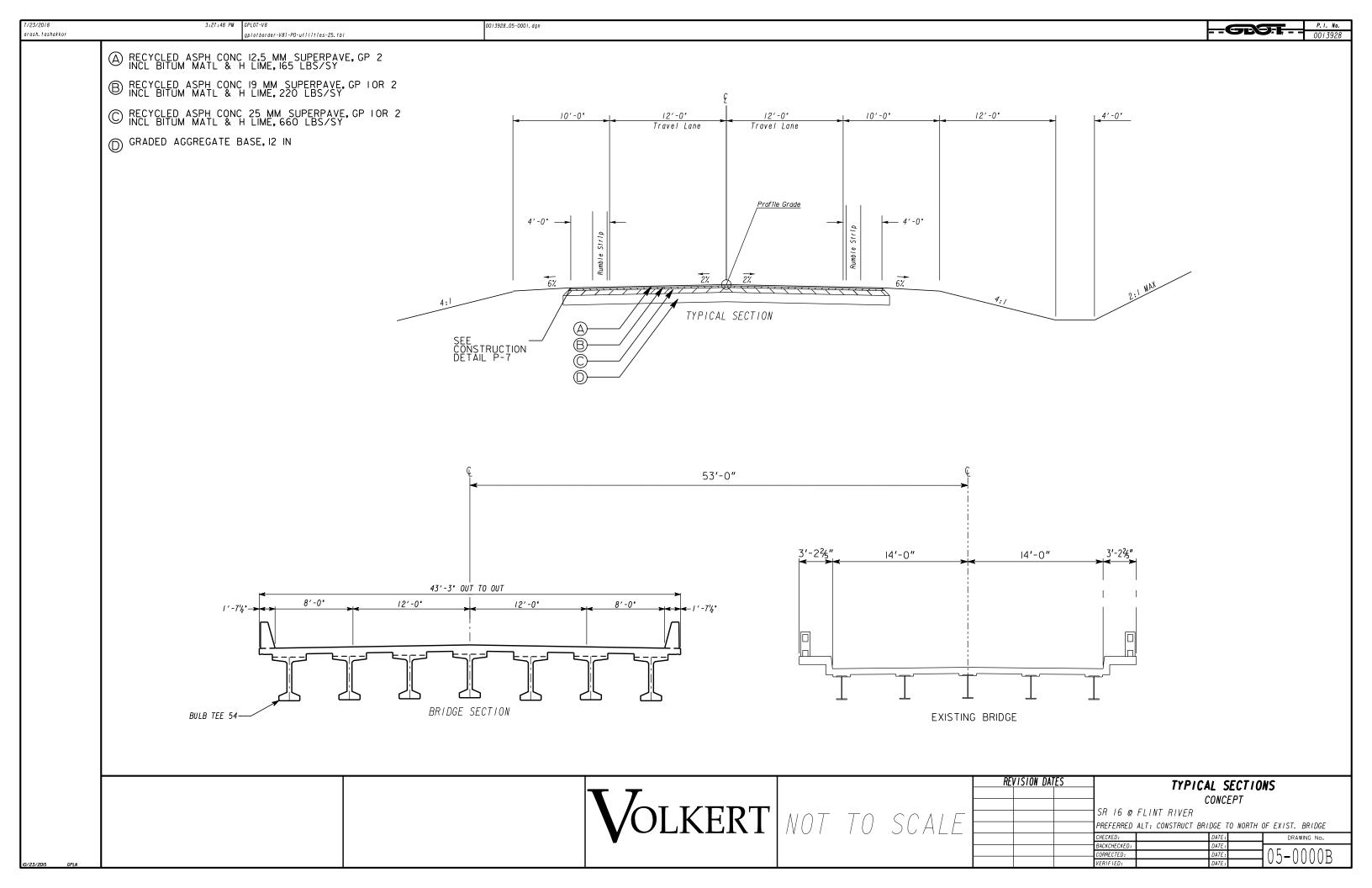
Additional Comments/Information: None

LIST OF ATTACHMENTS/SUPPORTING DATA

- 1. Concept Layout
- 2. Typical Section
- 3. Cost Estimate
- 4. Concept Utility Report
- 5. Utility Cost Estimate
- 6. ROW Cost Estimate Request
- 7. Mitigation Cost Estimate Document
- 8. Traffic Memo
- 9. Crash Summary
- 10. Detour Map
- 11. Bridge Inventory Report
- 12. Concept Team Meeting Minutes







DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No.		0013928		OFFICE	Program Delivery
PROJEC	CT DESCRI	[PT	ION			
This proj	ect proposes	to 1	replace the bridge on SR 16 over Flint	River in		
Spalding	County.				DATE	June 20, 2018
From:	Kimberly N	<mark>lest</mark>	oit, State Program Delivery Administrat	tor		
To:	Lisa L. Mv	ers.	State Project Review Engineer			
	•		box: CostEstimatesandUpdates@dot	t.ga.gov		
Subject:	REVISION	IS T	O PROGRAMMED COSTS			
DDOJEC		7 D	Kenneth T. Wicks, P.E.	MGMT LE	ΓDATE	11/15/2020
PROJEC	T MANAGI	ZK	Kenneth 1. Wicks, P.E.	MGMT RO	W DATE	11/15/2019
				MGMI KO		
<u>PROGR</u>	AMMED C	OS	TS (TPro W/OUT INFLATION)		<u>LAST</u>	ESTIMATE UPDATE
CONSTI	RUCTION	\$	3,900,000.00		DATE	6/21/2017
RIGHT (OF WAY	\$	250,000.00		DATE	6/21/2017
		,				
UTILITI	ES	\$			DATE	
REVISE	ED COST ES	STI	<u>MATES</u>			
CONSTI	RUCTION*	\$	6,733,499.41			
RIGHT (OF WAY	\$				
UTILITI	ES	\$	165,000.00			
*Cost C	Contains	15	% Contingency			

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

The attached estimate is being provided based on information gathered for the Limited Scope Concept Report. The proposed structure is estimated to be 480' and the total project length is estimated at 0.92 miles. A conceptual contingency of 15% is used along with current unit pricing from CES.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$ 5,470,745.26	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$ 273,537.26	Base Estimate (A) x 5]%
c. CONTINGENCY:	\$ 861,642.38	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	%
D. TOTAL LIQUID AC ADJUSTMENT:	\$ 127,574.51	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$ 6,733,499.41	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
Central Ga EMC	\$ 165,000.00
AT&T	\$ -
Spalding County Water	\$ -
	\$ -
TOTAL	\$ 165,000.00
ATTACHMENTS: (File Copy in the Project Cost Estimat	e Folder)
Detailed Cost Estimate Printout From TRAQS	
Liquid AC Adjustment Spreadsheet	

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME:	Volkert, Inc.
VALI	DATION OF FINAL QC/QA
PRINTED NAME:	Benjamin F. Rabun III, P.E.
TITLE:	Vice President
SIGNATURE:	
DATE:	6/20/2018

0/00/2016 PROJ. NO. N/A CALL NO. P.I. NO. 0013928 6/20/2018 DATE INDEX (TYPE) DATE INDEX Link to AC Index: REG. UNLEADED 2.814 http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex Jun-18 DIESEL 3.124 476.00 LIQUID AC LIQUID AC ADJUSTMENTS PA=[((APM-APL)/APL)]xTMTxAPL Asphalt 122979.36 \$ 122,979.36 Price Adjustment (PA) Monthly Asphalt Cement Price month placed (APM) 60% \$ 761.60 Max. Cap Monthly Asphalt Cement Price month project let (APL) 476.00 Total Monthly Tonnage of asphalt cement (TMT) 430.6 %AC **ASPHALT** AC ton Tons Leveling 200 5.0% 10 12.5 OGFC 0 5.0% 0 12.5 mm 1544 5.0% 77.2 9.5 mm SP 5.0% 0 25 mm SP 5151 5.0% 257.55 19 mm SP 1717 5.0% 85.85 8612 430.6 **BITUMINOUS TACK COAT** 4,595.15 4,595.15 \$ Price Adjustment (PA) Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% \$ 761.60 Monthly Asphalt Cement Price month project let (APL) 476.00 16.08944805 Total Monthly Tonnage of asphalt cement (TMT) Bitum Tack Gals gals/ton 3746 232.8234 16.0894481 **BITUMINOUS TACK COAT (surface treatment)** Price Adjustment (PA) 0 \$ Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% \$ 761.60 Monthly Asphalt Cement Price month project let (APL) 476.00 Total Monthly Tonnage of asphalt cement (TMT) gals/ton Bitum Tack Gals/SY Gals tons Single Surf. Trmt. 0.20 0 232.8234 0 0.44 0 0 Double Surf.Trmt. 232.8234 Triple Surf. Trmt 0.71 0 232.8234 0 0 TOTAL LIQUID AC ADJUSTMENT 127,574.51

\$

DATE : 06/20/2018

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER: 0013928 SPEC YEAR: 13

DESCRIPTION: SR 16 @ FLINT RIVER

ITEMS FOR JOB 0013928

	ITEM		DESCRIPTION	QUANTITY	PRICE	AMOUNT
0001	150-1000	 LS	TRAFFIC CONTROL - PI 0013928	1.000	200000.00	200000.00
0002	150-5010	EA	TRAF CTRL, PORTABLE IMPACT ATTN	4.000	200000.00 7857.85	31431.42
0003	153-1300	EA	FIELD ENGINEERS OFFICE TP 3	1.000	91057.55	91057.56
0004	163-0232	AC	TEMPORARY GRASSING	8.000	91057.55 769.57	6156.58
0005	163-0240	TN	MIII.CH	186.000	219.99	40918.52
0006	163-0300	EA	CONSTRUCTION EXIT	2.000	1492.17	2984.34
0007	165-0030	LF	MAINT OF TEMP SILT FENCE. TP C	2500.000	1.35	3387.98
0008	165-0101	EΔ	MAINT OF CONST EXIT	2 000	595 90	1191 82
0009	150-1000 150-5010 153-1300 163-0232 163-0240 163-0300 165-0030 165-0101 167-1000	EA	TRAFFIC CONTROL - PI 0013928 TRAF CTRL, PORTABLE IMPACT ATTN FIELD ENGINEERS OFFICE TP 3 TEMPORARY GRASSING MULCH CONSTRUCTION EXIT MAINT OF TEMP SILT FENCE, TP C MAINT OF CONST EXIT WATER QUALITY MONITORING AND SAMPLING	2.000	332.78	1191.82 665.58
	167-1500	MO	WATER OUALITY INSPECTIONS	18.000	872.77	15709.87
0011	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	5000.000	3.49	17464.40
	210-0100	LS	GRADING COMPLETE - PI 0013928	1.000	750000.00	750000.00
	310-1101	TN	GR AGGR BASE CRS, INCL MATL	10537.000	23.89	251777.51
	402-1812	TN	RECYL AC LEVELING.INC BM&HL	200.000	103.46	20693.61
	402-3121	TN	RECYL AC 25MM SP.GP1/2.BM&HL	5151.000	75.27	387745.59
	402-3130	TN	RECYL AC 12.5MM SP.GP2.BM&HL	1544.000	92.83	143341.04
	402-3190	TN	WATER QUALITY INSPECTIONS TEMPORARY SILT FENCE, TYPE C GRADING COMPLETE - PI 0013928 GR AGGR BASE CRS, INCL MATL RECYL AC LEVELING, INC BM&HL RECYL AC 25MM SP,GP1/2,BM&HL RECYL AC 12.5MM SP,GP2,BM&HL RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1717.000	84.38	144885.46
0018	413-0750	GL				
	432-0206	SY	MILL ASPH CONC PVMT/ 1.50 DEP	3100.000	2.57 3.92	12152.00
0020	433-1000	SY	REINF CONC APPROACH SLAB	289.000	173.35	50100.32
0021	441-0301	EA	CONC SPILLWAY, TP 1	4.000	1861.96	7447.85
0022	456-2015	GLM	MILL ASPH CONC PVMT/ 1.50 DEP REINF CONC APPROACH SLAB CONC SPILLWAY, TP 1 INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP) REM OF EX BR, BR NO - PI 0013928 CONSTR OF BRIDGE COMPLETE - PI 0013928 STM DR PIPE 18,H 1-10 SIDE DR PIPE 18,H 1-10 FLARED END SECT 18 IN, SIDE DR FLARED END SECT 18 IN, ST DR STN DUMPED RIP RAP, TP 3, 18 PLASTIC FILTER FABRIC REM FENCE - PI 0013928 REM GATE - PI 0013928 REM HIGHWAY SIGN, STD RESET FENCE - PI 0013928 RESET GATE - PI 0013928 RESET HIGHWAY SIGN TEMP BARRIER, METHOD NO. 1 CHANGEABLE MESS SIGN, PORT, TP 3 RIGHT OF WAY MARKERS GUARDRAIL, TP T GUARDRAIL, TP W	2.000	3145.04	6290.09
0023	540-1102	T.S	REM OF EX BR BR NO - PT 0013928	1 000	590000 00	590000 00
	543-9000	D.T	CONSTR OF BRIDGE COMPLETE - DI 0013928	1 000	250000.00	250000.00
	550-1180	I.F	CONDITION DE DE 18 H 1-10	130 000	55 23	7180 16
	550-2180	I.F	SIN DR FIFE 10,H 1 10 SIDE DR DIDE 18 H 1-10	70 000	34 56	2419 39
	550-4118	ΕV	FLAPED FND SECT 18 IN SIDE DP	2 000	446 35	892 71
	550-4218	EΔ	FLARED END SECT 10 IN, SIDE DR	2.000	626.86	1253 73
	603-2181	SV	STN DIMPED RID RAD TD 3 18	24 000	55 57	1333.73
	603-7000	SY	DIASTIC FILTER FARRIC	24 000	4 84	116 39
	610-0300	I.F	REM FENCE - DI 0013928	2400 000	4 51	10843 08
	610-0301	EΣ	REM GATE - DI 0013928	2 000	357 75	715 50
	610-6515	EΣ	REM HICHWAY SIGN STD	15 000	75 08	1126 24
	611-4890	I.F	RESET FENCE - DI 0013928	2400 000	13.00	31200.21
	611-4996	ΕV	PECET CATE - DI 0013928	2 000	402 99	805 99
	611-5360	EΔ	RESET HIGHWAY SIGN	15 000	112.99	1692 45
	620-0100	LF	TEMP BARRIER METHOD NO 1	1000 000	32.55	32559 56
	632-0003	EΔ	CHANGEABLE MESS SIGN PORT TP 3	2 000	7611 50	15223 01
	634-1200	EΔ	RIGHT OF WAY MARKERS	15 000	122 82	1857 39
	641-1100	LF	GUARDRAIL TP T	83.000	71 08	5899 76
	641-1200	LF	GUARDRAIL, TP W	250 000	19.55	4888 53
0012				230.000	17.55	1000.33

STATE HIGHWAY AGENCY

DATE : 06/20/2018

PAGE : 2

JOB ESTIMATE REPORT

======		=======		===========	=========	=========
0043	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	2.000	951.27	1902.54
0044	641-5020	EA	GUARDRL, ANCHOR, TP 12B,31 IN, FLR, E/A	2.000	2442.52	4885.04
0045	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	500.000	1.86	933.62
0046	653-1501	$_{ m LF}$	THERMO SOLID TRAF ST 5 IN, WHI	9000.000	0.50	4561.20
0047	653-1502	$_{ m LF}$	THERMO SOLID TRAF ST, 5 IN YEL	9000.000	0.51	4671.90
0048	653-1704	$_{ m LF}$	THERM SOLID TRAF STRIPE, 24, WH	36.000	9.14	329.39
0049	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	700.000	0.50	352.55
0050	653-6006	SY	THERM TRAF STRIPING, YELLOW	480.000	4.95	2377.82
0051	654-1001	EA	RAISED PVMT MARKERS TP 1	245.000	4.80	1176.05
0052	654-1003	EA	RAISED PVMT MARKERS TP 3	18.000	5.73	103.23
0053	657-1085	$_{ m LF}$	PRF PL SD PVT MKG,8,B/W,TP PB	960.000	6.76	6495.03
0054	657-6085	$_{ m LF}$	PRF PL SD PVMT MKG,8,B/Y,TPPB	960.000	6.85	6582.94
0055	700-6910	AC	PERMANENT GRASSING	15.000	1332.81	19992.29
0056	700-7000	TN	AGRICULTURAL LIME	8.000	156.14	1249.16
0057	700-8000	TN	FERTILIZER MIXED GRADE	4.000	614.95	2459.82
0058	700-8100	LB	FERTILIZER NITROGEN CONTENT	747.000	2.53	1894.32
0059	716-2000	SY	EROSION CONTROL MATS, SLOPES	5000.000	1.14	5741.90
ITEM	TOTAL					5470745.23
	TED ITEM TOTAL					5470745.23
TOTAL	S FOR JOB 0013928					
ESTIM	ATED COST:					5470745.26
CONTI	NGENCY PERCENT (0	0.0):				0.00
ESTIM	יו ערדים די	•				5470745 26

ESTIMATED TOTAL: 5470745.26

Original Version: May 24, 2013

Concept Utility Report

Project Number:	District: 3
County: Spalding	Prepared by: Scott Parker
P.I. # <u>0013928</u>	Date: 4/27/2018
Project Description: SR 16 @ FLINT RIVER 8 MI W	<u>OF GRIFFIN</u>
The information provided herein has been gathered from Nothing contained in this report is to be used as a substi	m Georgia811and/or field visits and serves as an estimate tute for 1 st Submission or SUE.
Are SUE services recommended? No Level:	A DB C D
Public Interest Determination (PID): Automa	atic Mandatory Consideration
☐ No Use	
Is a separate utility funding phase recommended?	<u>No</u>
Existing Facilities: Central Ga EMC, AT&T, Spalding	County Water
Potential Project (Schedule/Budget) Impacts: non	<u>e</u>
Capital Improvement Projects (Utilities) Anticipate	ed in the Area: none
Project Specific Recommendations for Avoidance/	Mitigation: none
Right of Way Coordination: Please purchase all pe	rmanent easements with the right to place utilities
Environmental Coordination: none	
Additional Remarks: Telecom is attached to existing	
new bridge. A water metering system is attached to	bridge that will require coordination for removal
and re-installation under construction.	

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: Office: D3 - UTILITIES

County SPALDING Date: 04/27/2018

P.I. # **0013928**

Description: SR16 @ FLINT RIVER 8 MI W OF GRIFFIN

FROM Scott K. Parker, District Utilities Manager

TO Kenneth Wicks, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted with Concept Layout plans. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	Reimbursable	Non- Reimbursable	Estimate Based on
Central Ga EMC	\$165,000.00	\$0.00	Site Visit / Available Drawings
AT&T	\$0.00	\$58,000.00	Site Visit / Available Drawings
Spalding County Water	\$0.00	\$210,000.00	Site Visit / Available Drawings
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
Total 0.00%	\$ 165,000.00	\$ 268,000.00	
Department Responsibility 100.00%	\$ 165,000.00	\$ 268,000.00	
Local Sponsor Responsibility 0.00%	\$ 0.00	\$ 0.00	PFA Dated N/A with N/A

^{**} Indicates Potential Utility Aid Request from Local Gov't

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Scott Parker at 706-646-7603.

cc: Yulonda Pride-Foster, State Utilities Preconstruction Manager Patrick Allen, State Utilities Administrator Adam Smith, District Preconstruction Engineer

Eshagieh, Abbas

From: Eshagieh, Abbas

Sent: Friday, March 9, 2018 4:11 PM

To: 'Wicks, kenneth'
Cc: Rabun, Ben

Subject: Bridge Bundle 3 Contract 11 - ROW and Utilities Cost Estimate Request

Attachments: 0013928 Alternative 1- RIGHT OF WAY Cost Estimate Package.pdf; 0013928 Preferred

Alternative- RIGHT OF WAY Cost Estimate Package.pdf; 0013930 Alternative 1- RIGHT OF WAY Cost Estimate Package.pdf; 0013930 Preferred Alternative- RIGHT OF WAY Cost Estimate Package.pdf; 0013991 Preferred Alternative- RIGHT OF WAY Cost Estimate

Package.pdf

Ken,

Please see ROW and Utilities Cost Estimate Request Package for 0013928, 0013930 and 0013991 attached.

Thanks

Abbas Eshagieh, PE

Project Manager Volkert, Inc. Cell 404-313-9298

abbas.eshagieh@volkert.com

The information contained in this e-mail, including any accompanying documents or attachments, is from Volkert, is intended only for the use of the individual or entity named above, and is privileged and confidential. If you are not the intended recipient, be aware that any disclosure, dissemination, distribution, copying or use of the contents of this message is strictly prohibited. If you have received this message in error, please notify Volkert immediately at our corporate office (251) 342-1070. Thank you for your cooperation.

Eshagieh, Abbas

From: Borovich, Henry <Henry.Borovich@atkinsglobal.com>

Sent: Friday, May 4, 2018 5:08 AM

To: Eshagieh, Abbas

Subject: FW: Bridge Bundle 3 Contract 11 - Mitigation

Mitigation cost estimates below.

Henry Borovich, AICP Project Director

Atkins

1600 RiverEdge Parkway, Suite 600, Atlanta, Georgia 30328

Tel: (770) 933-0280 | Fax: (770) 933-1083

Email: henry.borovich@atkinsglobal.com | Web: www.atkinsglobal.com

From: Ricks, Rebecca G

Sent: Thursday, May 03, 2018 4:11 PM

To: Borovich, Henry < Henry. Borovich@atkinsglobal.com >

Cc: Margut, Michael M < Michael. Margut@atkinsglobal.com >; Shouse, Rachel < Rachel. Shouse@atkinsglobal.com >;

Jamell, Josh J < Josh. Jamell@atkinsglobal.com>

Subject: RE: Bridge Bundle 3 Contract 11 - Mitigation

Henry,

I've included the estimates below. These estimates are based on NWI and NHD datasets and are based on highest possible impacts (i.e. fill within the entire study area) to generate a worst-case scenario impacts cost. While we have been in the field for 13991 and 13928 (and partly for 13930), the field data hasn't been completely post-processed, so I did not use that at this time. Obviously, mitigation would be expected to be very different once we complete post-processing and field work and have a better idea of the proposed impacts.

0013991 - DeKalb

Total credits needed: 1,780 stream credits, Upper Chattahoochee (03130001) HUC

Estimated cost: \$71,200

0013928 - Spalding

Total credits needed: 1,715 stream credits, 9.72 wetlands credits Upper Flint (03130005) HUC

Estimated cost: \$84,045

0013930 - Coweta

Total credits needed: 3,087 stream credits, Upper Flint (03130005) HUC

Estimated Cost: \$46,314

Rebecca Ricks

e-mail: rebecca.ricks@atkinsglobal.com Direct: 678-247-2467 Office: 770-933-0280

1600 RiverEdge Parkway, NW, Suite 700, Atlanta, Georgia, 30328

From: Borovich, Henry

Sent: Tuesday, May 01, 2018 1:33 PM





160 Greencastle Road, Suite A Tyrone, GA 30290 Office: 678.271.0202

www.volkert.com

MEMORANDUM TO: Kenneth Wicks

Georgia Department of Transportation, Office of Planning

FROM: Benjamin F. Rabun III, P.E.

Volkert, Inc.

DATE: 06-06-2018

SUBJECT: Traffic Assignments for PI# 0013928, Spalding, SR 16 @ FLINT

RIVER 8 MI W OF GRIFFIN

Volkert is furnishing Traffic Assignments for the above project as follows:

BRIDGE- ID 255-0012-0

	2018 (Existing		2025 (Base Year		2045 (Design Year
	Year)	2023 (Base Year)	+2)	2043 (Design Year)	+ 2)
AADT	7865	7525	7675	9200	9375
DHV (AM/PM)	678/785	715/ 825	750/ 865	790/ 910	830/ 955
K% (AM/PM)	8.0%/ 9.5%				
D% (AM/PM)	51.5%/ 53.0%				
24 HR. T% - S.U.	16.0%				
24 HR. T% - COMB.	4.5%		Como oo	Eviating Voor	
24 HR. T% - TOTAL	21.0%		Sallie as	Existing Year	
T% - S.U. (AM/PM)	12.5%/ 14.5%				
T% - COMB. (AM/PM)	4.5%/ 2.5%				
T% - TOTAL (AM/PM)	17.0%/ 17.0%				

If you have any questions concerning this information, please contact Ben Rabun at 678-271-0202 or ben.rabun@volkert.com.

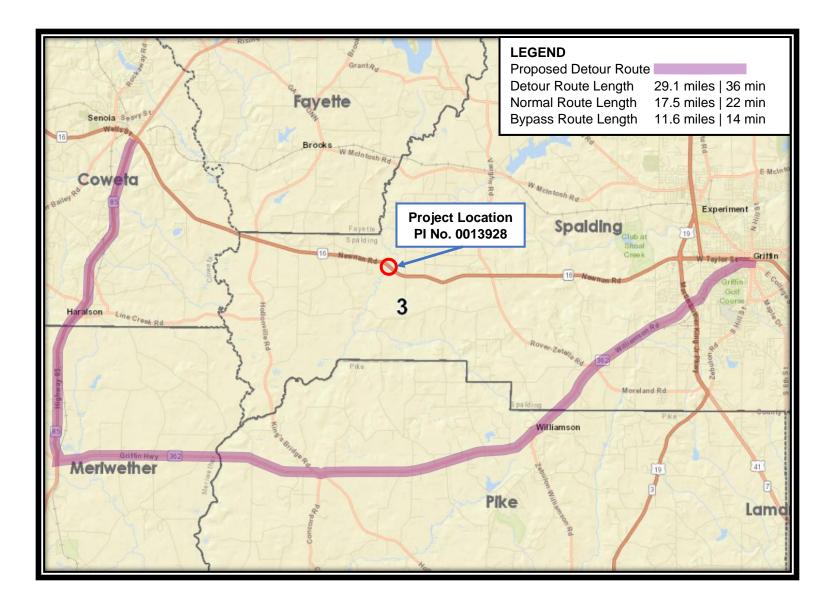


Crash Data for the Most Recent Three Years 2016 to 2018 SR 16 @ Flint River

2016	Number of Incidents	Injury	Fatality
Out of Control	1	0	0
Total	1	0	0
2017	Number of Incidents	Injury	Fatality
Rear End	2	1	0
Out of Control	5	0	0
Angle	2	1*	0
Total	9	2	0
2018	Number of Incidents	Injury	Fatality
Rear End	1	3	0
Side Swipe	1	1	0
Total	2	4	0

^{*} According to the accident report, the contributing factor was determined to be "Mechanical or Vehicle Failure" at the time of accident.

PROJECT DETOUR MAP



Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:1/2/2018

* Location ID No:

255-00016D-004.15E

Parameters: Bridge Serial Number

Bridge Serial Number: 255	-0012-0	County: Spalding		SUFF. RATING: 54.7	
Location & Geography		218 Datum:	0- Not Applicable	Signs & Attachments	
Structure ID:	255-0012-0	*19 Bypass Length:	10	225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant).
200 Bridge Information:	07	*20 Toll:	3- On a Free Road or Non-Highway	242 Deck Drains:	1- Open Scuppers.
*6 Feature Intersected:	FLINT RIVER	*21 Maintenance Responsibility:	01-State Highway Agency.	243A Parapet Location:	0- None present.
*7A Route Number Carried:	SR00016	*22 Owner:	01-State Highway Agency.	243B Parapet Height:	0.00
*7B Facility Carried:	SR 16	*31 Design Load:	6- HS 20 + Mod (2-24,000# Axles @ 4ft Ctrs., when they govern)	243C Parapet Width:	0.00
9 Location:	8 MI W OF GRIFFIN	37 Historical Significance:	5- Not eligible for the National Register of Historic Places	238A Curb Height:	1.2
2 GDOT District:	4841300000 - D3 District Three Thomaston	205 Congressional District:	003	238B Curb Material:	1- Concrete.
*91 Inspection Frequency:	24 Date: 08/22/2016	27 Year Constructed:	1960	239A Handrail Left:	1- Concrete.
92A Fracture Critical Insp. Freq:	0 Date: 02/01/1901	106 Year Reconstructed:	0	239B Handrail Right:	1- Concrete.
92B Underwater Insp Freq:	60 Date: 08/09/2017	33 Bridge Median:	0-None	*240 Median Barrier Rail:	0- None.
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	34 Skew:	0	241A Bridge Median Height:	0
* 4 Place Code:	00000	35 Structure Flared:	No	241B Bridge Median Width:	0
*5A Inventory Route(O/U):	1	38 Navigation Control:	0- Navigation is not controlled by an Agency	*230A Guardrail Location Direction Rear:	3- Both sides.
5B Route Type:	3 - State	213 Special Steel Design:	0- Not applicable or other	*230B Guardrail Location Direction Fwrd:	3- Both sides.
5C Service Designation:	1- Mainline	267A Type Paint Super Structure:	5- Waterborne System (Type VI or VII) Year : 1999	*230C Guardrail Location Opposing Rear:	0- None.
5D Route Number:	00016	267B Type Paint Sub Structure:	5 - Waterborne System (Type VI or VII). Year : 1999	*230D Guardrail Location Opposing Fwrd:	0- None.
5E Directional Suffix:	Not applicable	*42A Type of Service On:	1-Highway	244 Approach Slab:	0- None.
*16 Latitude:	33 - 14.6497	*42B Type of Service Under:	5-Waterway	224 Retaining Wall:	0- None.
*17 Longtitude:	84 - 25.7138	214A Movable Bridge:	0	233 Posted Speed Limit:	55
98A Border Bridge:	0 98B: GA% 00	214B Operator on Duty:	0	236 Warning Sign:	No
99 ID Number:	000000000000000	203 Type Bridge:	O - Multiple combinations (be sure the different types are on file).	234 Delineator:	Yes
			N. Steel-Concrete N. Steel-Concrete O. Concrete		
*100 STRAHNET:	0- The Feature is not a STRAHNET route.	259 Pile Encasement:	0	235 Hazard Boards:	Yes
12 Base Highway Network:	Yes	*43A Structure Type Main material:	3-Steel	237A Gas:	00- Not Applicable
13A LRS Inventory Route:	2551001600	*43B Structure Type Main Type:	2-Stringer/Multi-Beam or Girder	237B Water:	00- Not Applicable
13B Sub Inventory Route:	0	45 Number of Main Spans:	3	237C Electric:	00- Not Applicable
101 Parallel Structure:	N. No parallel structure exists	44 Structure Type Approach:	A:1- Concrete B: 4- Tee Beam	237D Telephone:	22- Bottom Right.
*102 Direction of Traffic:	2- Two Way	46 Number of Approach Spans:	5	237E Sewer:	00- Not Applicable
*264 Road Inventory Mile Post:	4.05	226 Bridge Curve:	A: Vertical: NoB: Horizontal: No	247A Lighting: Street:	No
*208 Inspection Area:	Area 03	111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway	247B Navigation:	No
*104 Highway System:	1-Inventory Route is on the NHS	107 Deck Structure Type:	1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars	247C Aerial:	No
*26 Functional Classification:	6- Rural - Minor Arterial	108A Wearing Surface Type:	1. Concrete	*248 County Continuity No.:	03
*204A Federal Route Type:	F - Primary.	108B Membrane Type:	0. None	36A Bridge Railings:	2- Inspected feature meets acceptable construction date standards.
*204B Federal Route Number:	00221	108C Deck Protection:	0. None	36B Transition:	2- Inspected feature meets acceptable construction date standards.
105 Federal Lands Highway:	Not applicable	265 Underwater Inspection Area:	2	36C Approach Guardrail:	1- Meets current standards
*110 Truck Route:	0- The Feature is not part of the National Network for	•		36D Approach Guardrail Ends:	1- Meets current standards
	Trucks				
217 Benchmark Elevation:	0000.00				

Bridge Inventory Data Listing Georgia Department of Transportation

Processed Date:1/2/2018

Bridge Serial Number: 255-0012-0		County: Spalding		SUFF. RATING: 54.7	
Programming Data		Measurements:		Ratings and Posting	
201 Project Number:	BA (4) SP 977 (3)	*29 AADT:	7160	65 Inventory Rating Method:	1-Load Factor (LF)
202 Plans Available:	4- Plans in Infolmage.	*30 AADT Year:	2012	63 Operating Rating Method:	1-Load Factor (LF)
249 Proposed Project Number:	000000000000000000000000000000000000000	109 % Truck Traffic:	1	66A Inventory Type:	2 - HS loading.
250A Reconstruction Approval Status:	No	* 28A Lanes On:	2	66B Inventory Rating:	21
250B Route Approval Status:	No	*28B Lanes Under:	0	64A Operating Type:	2 - HS loading.
250C Approval Status Definition:	0	210A Tracks On:	00	64B Operating Rating:	29
250D Approval Status Federal:	0	210B Tracks Under:	0	231Calculated Loads	Posting Required
251Project Identification Number:	0013928	* 48 Maximum Span Length:	60	231A H-Modified:	20 No
252 Contract Date:	02/01/1901	* 49 Structure Length:	380	231B Type3/Tandem:	28 No
260 Seismic Number:	00000	51 Bridge Roadway Width:	28.0'	231C Timber:	36 No
75A Type Work Proposed:	0- Not Applicable	52 Deck Width:	34.4'	231D HS-Modified:	25 No
75B Work Done by:	0- Initial Inventory	* 47 Total Horizontal Clearance:	28.0'	231E Type 3S2:	40 No
94 Bridge Improvement Cost:(X\$1,000)	\$1,485	50A Curb / Sidewalk Width Left:	2.0	231F Piggyback:	40 No
95 Roadway Improvement Cost: (X\$1,000)	\$148	50B Curb / Sidewalk Width Right:	2.0	261 H Inventory Rating:	20
96 Total Improvement Cost: (X\$1,000)	\$2227	32 Approach Rdwy. Width:	29.0'	262 H Operating Rating:	35
76 Improvement Length:	0.0'	*229 Approach Roadway		67 Structural Evaluation:	4
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width: 3	Right Width:3.0 Type: 2 - Asphalt.	58 Deck Condition:	6 - Satisfactory Condition
114 Future AADT:	10740	Fwd Shoulder: Left Width: 3	Right Width:3.0 Type: 2 - Asphalt.	59 Superstructure Condition:	6 - Satisfactory Condition
115 Future AADT Year:	2032	Rear Pavement: Width: 23.0	Type:2- Asphalt.	* 227 Collision Damage:	
		Forward Pavement: Width: 23.0	Type:2- Asphalt.	60A Substructure Condition:	6 - Satisfactory Condition
		Intersection Rear: 0	Forward:0	60B Scour Condition:	7 - Good Condition
Hydraulic Data		53 Minimum Vertical Clearance Over Rd:	99' 99"	60C Underwater Condition:	7 - Good Condition
113 Scour Critical:	U. No Load Rating; no scour critical data entered.	54A Under Reference Feature:	N- Feature not a highway or railroad.	71 Waterway Adequacy:	6-Equal to present minimum criteria.
216A Water Depth:	7.2	54B Minimum Clearance Under:	0' 0"	61 Channel Protection Cond.:	6-Equal to present minimum criteria.
216B Bridge Height:	18.1	*228 Minimum Vertical Clearance		68 Deck Geometry:	4
222 Slope Protection:	1	228A Actual Odometer Direction:	99'99"	69 UnderClr. Horz/Vert:	N
221A Spur Dike Rear:		228B Actual Opposing Direction:	99'99"	72 Approach Alignment:	6-Minor reduction of vehicle operating speed required.
221B Spur Dike Fwd:		228C Posted Odometer Direction:	00'00"	62 Culvert:	N - Not Applicable
219 Fender System:	0- None.	228D Posted Opposing Direction:	00'00"	70 Bridge Posting Required:	5. Equal to or above legal loads
220 Dolphin:		55A Lateral Underclearance Reference:	N- Feature not a highway or railroad.	41 Struct Open, Posted, CL:	A. Open, no restriction
223A Culvert Cover:	000	55B Lateral Underclearance on Right:	0.0	* 103 Temporary Structure:	No
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance on Left:	0.0	232 Posted Loads	
223C Number of Barrels:	0	10A Direction of Travel for Max Min:	0	232A H-Modified:	00
223D Barrel Width:	0.0	10B Max Min Vertical Clearance:	99'99"	232B Type3/Tandem:	00
223E Barrel Height:	0.0	245A Deck Thickness Main:	6.3	232C Timber:	00
223F Culvert Length:	0.0	245B Deck Thickness Approach:	6.3	232D HS-Modified:	00
223G Culvert Apron:	0	246 Overlay Thickness:	0	232E Type 3s2:	00
39 Navigation Vertical Clearance:	0'			232F Piggyback:	00
40 Navigation Horizontal Clearance:	0			253 Notification Date:	02/01/1901
116 Navigation Vertical Clear Closed:	0			258 Federal Notify Date:	02/01/1901



Volkert, Inc.

101 Marietta Street, NW, Suite 2400

Atlanta, GA 30303

Office: 678.271.0202

www.volkert.com

MEETING Summary

SUBJECT: PI 0013928 Concept Team Meeting

LOCATION: GDOT District 3 Office, Thomaston, Auditorium C

DATE: 05/03/2018 at 10:00 AM

ATTENDEES: See Sign-in Sheet

COPIES: Attendees

MINUTES BY: Abbas Eshagieh-Meybodi, PE

ISSUE DATE: 05/03/2018

Abbas introduced the project.

Abbas presented the project details and read the justification statement.

The existing bridge was designed for HS-20 vehicle, which is below the current design standards. The substructure has a lower than expected carrying capacity. The bridge is classified as having an unknown foundation.

SR 16 is classified as a rural minor arterial

Existing typical section has 11.5' lanes with 3' shoulders.

SR 16 runs East-West over Flint River.

55 mph is the posted speed limit.

Proposed bridge is 480' long by 43.25' wide

Bridge will be replaced parallel and offset to the north of the existing bridge. The bridge elevation will be determined after the bridge hydraulic analysis is completed.

8' shoulder was selected per bridge manual (based on traffic volumes).

The proposed typical section includes 12' lanes with 10' shoulders.

Existing ROW along the proposed project corridor is 170'.

Preferred alternate is parallel offset alignment to the north because of high traffic volumes, avoidance of a long detour length and minimal impacts to the fire station.

No Design Variances or Design Exceptions are anticipated.

SUE is not required.

Utilities will be impacted for this project.

Utility cost estimate has been provided.

\$6.2 million is current construction cost estimate.

The current programmed cost for ROW is \$250k. This amount is being used as part of the cost estimate until ROW cost by GDOT is provided.

Total cost is estimated at \$7.1 million - including ROW cost.



Volkert, Inc.

101 Marietta Street, NW, Suite 2400 Atlanta, GA 30303

Office: 678.271.0202

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Alternates: Preferred alternate is parallel offset alignment to the north. Other alternates considered include no build, parallel offset alignment to the south and off-site detour.

Carol recommended \$45 per sqft be used to estimate the removal cost of the existing bridge.

Carol requested sufficiency rating of the existing bridge be removed from the concept report.





101 Marietta Street, NW, Suite 2400 Atlanta, GA 30303

Office: 678.271.0202

www.volkert.com

PURPOSE: PI 0013928 CONCEPT TEAM MEETING

LOCATION: GDOT DISTRICT 3 OFFICE

DATE: 05/03/2018

TIME: _10:00 AM

MODERATOR: Abbas Eshagieh, Volkert

	NAME	ORGANIZATION	PHONE NO.	E-MAIL ADDRESS
1	Arash Jushakkar	Valkent	404-445-9287	arash tashukkar 6 Valket. can
2	Ken Raker	Volket	AB 678 271 0202	Den rabu @ solver com
3	Michael Maguet	Mens	678-247-2540	Michael Mand @ altensglobul-con
4	Clyde Sanders	Vollcert	770-731-9140	Clyde . Sa-ders & vollert. 10m
5	Rechel Shows	Atkins	678-581-347	
6	Shawn Buckley	GDOT D3 precon	706-646-7574	Sbuckley@dot
7	SCOTT PARKER	GROT UTILS	706-741-36	19 sparkeredotoa sov
8	CHANCE BAXLEY	G DOT D3 TRAKE	206 646 7589	c 6 externo coriga (a)
9	Her wing	OPD LARCUM	707-851-5559	Kewicus @ dot.gn.gov
10	DERRICK GAMERON	GUOT	40444417760	DEANIESONO DOTION GOV
11	The state of the s	Volker	678.271.2020	clark Kennew D volke 2. Lon
12	Johnathan mcLoyd	BOOT	404.631.1774	abbas. eshagicher Ikel.com
13	Abbas Estragiet Meybal.	· Volket	678 271 0202	abbas. eshagichay/kel
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